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(12)

### **EUROPEAN PATENT APPLICATION**

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### (54) CDNA Clone heoad54 that encodes a human 7 transmembrane receptor

(57) HEOAD54 polypeptides and polynucleotides and methods for producing such polypeptides by recombinant techniques are disclosed. Also disclosed are methods for utilizing HEOAD54 polypeptides and polynucleotides in the design of protocols for the treatment of infections such as bacterial, fungal, protozoan and viral infections, particularly infections caused by HIV-1 or HIV-2; pain; cancers; anorexia; bulimia; asthma; Parkin-

son's disease; acute heart failure; hypotension; hypertension; urinary retention; osteoporosis; angina pectoris; myocardial infarction; ulcers; asthma; allergies; benign prostatic hypertrophy; and psychotic and neurological disorders, including anxiety, schizophrenia, manic depression, delirium, dementia, severe mental retardation and dyskinesias, such as Huntington's disease or Gilles dela Tourett's syndrome, among others, and diagnostic assays for such conditions.



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# PARTIAL EUROPEAN SEARCH REPORT

which under Rule 45 of the European Patent ConventionEP 98 30 4192 shall be considered, for the purposes of subsequent proceedings, as the European search report

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A	TIBS TRENDS IN BIO	es on G-protein-coupled  OCHEMICAL SCIENCES,  June 1997 (1997-06-01)		C12N15/12 C12N5/10 C07K14/705 C07K16/28 A61K48/00 A61K38/17 C12Q1/68	
	OLIVEIRA L. ET AL: G-protein-coupled helix receptors" JOURNAL OF COMPUTE DESIGN, vol. 7, no. 6, 1 December 1993 (1 649-658, XP0020508 ISSN: 0920-654X	993-12-01) nages			
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### IMCOMPLETE SEARCH SHEET C

Application Number
EP 98 30 4192

Although claims 13 and 14 are directed to a method of treatment of the human/animal body (Article 52(4) EPC), the search has been carried out and based on the alleged effects of the compound/composition.

Claim(s) searched completely: 1-16, 18, 20

Claim(s) searched incompletely: 17, 19

Reason for the limitation of the search:

Present claims 17 and 19 relate to an extremely large number of possible compounds. Support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to peptides derived from the disclosed polypeptide, specific antibodies and antisense molecules.



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## PARTIAL EUROPEAN SEARCH REPORT

Application Ramba

EP 98 30 4192

	DOCUMENTS CONSIDERED TO BE RELEVANT	CLASSIFICATION OF THE APPLICATION (MLCLS)	
Category	Cliation of document with indication, where appropriate, of retavant passages	Rotovant to claim	
A	LEE N.H. AND KERLAVAGE A.R.: "Molecular biology of G-protein-coupled receptors" DRUG NEHS AND PERSPECTIVES, vol. 6, no. 7, 1 September 1993 (1993-09-01), pages 488-497, XP000677175 ISSN: 0214-0934		
A	HESS J.: "G-protein-coupled receptors: molecular mechanisms involved in receptor activation and selectivity of G-protein recognition" THE FASEB JOURNAL, vol. 11, no. 5, April 1997 (1997-04),		TECHNICAL FIELDS
	pages 346-354, XP002121229		SEARCHED (MCCLS)
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